### PHYSICAL COLLOCATION Bell Atlantic - New York FCC - 11

# BASED ON THE AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	<u>c</u>
	ITEM	SOURCE	BA - NY
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$24.53
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	<b>\$</b> 18.40
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	<b>\$</b> 24.43
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	<b>\$</b> 6.11
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>AVERAGE EXPECTED</u> LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$24.50

### PHYSICAL COLLOCATION Bell Atlantic - New York FCC - 11

### DC POWER - COST SUMMARY

	<u>A</u>	R	<u>c</u>
LINE NO.	<u>ITEM</u>	SOURCE	MONTHLY RECURRING
	DC POWER PER AMP		
1	LESS THAN OR EQUAL TO 60 AMPS	WP 1.0, PG 2, LN 11F	\$24.53
2	GREATER THAN 60 AMPS	WP 1.1, PG 2, LN 11F	\$24.43
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WORKPAPER 1.0 PAGE 1 OF 2

### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

A	<u>B</u>	Ç	<u>D</u>	E	E
<u>ļtem</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1 TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.0, LINE 8	-	-	\$262.90	\$262.90
2 EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$732.24	\$732.24
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$732.24	\$732.24
6 LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	-	0.0000
7 BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	•	0.2140
8 LAND INVESTMENT	LINE SE x LINE 6C	\$0.00		٠	\$0.00
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156.70	-	\$156.70
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.70	\$732.24	\$888.94

WORKPAPER 1.0 PAGE 2 OF 2

#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	<u>A</u>	B	<u>c</u>	D	Ē	E
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.0, LINE 10	\$0.00	\$156.70	\$732.24	\$888.94
2	DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.51	<b>\$</b> 37.34	\$40.85
3	COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$13.35	\$41.81	\$55,16
4	INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.39	\$16.91	\$22,31
5	OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.97	\$1.54	\$6.51
6	MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.22	\$61.58	\$65.80
7	ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	<b>\$</b> 5.70	\$26.65	\$32.36
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.00	\$37.14	\$185.84	\$222.98
9	MONTHLY COST	LINE 8 / 12	\$0.00	\$3.09	\$15.49	\$18.58
10	OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.09	\$20.44	\$24.53
12	DIRECT COST TO RATE	LINE 9/LINE 11	0.0000	0.7576	0.7576	0.7576

WORKPAPER 1.1 PAGE 1 OF 2

#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	A	<u>B</u>	c	D	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL DC POWER PLANT UNIT INVESTMENT	. WP 2.1, LINE 8	-	-	\$261.85	\$261.85
2	EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$729.32	\$729.32
4	UTILIZATION FACTOR	ENGINEERING	•	•	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$729.32	\$729.32
6	LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	-	0.0000
7	BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	-	0.2140
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$0.00		•	\$0.00
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156,07	•	\$156.07
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.07	\$729.32	\$885.39

WORKPAPER 1.1 PAGE 2 OF 2

### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	<u>A</u>	<u>B</u>	<u>c</u>	Ď	E	E
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.1, LINE 10	\$0.00	<b>\$156.07</b>	\$729.32	\$885 39
2	DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.50	\$37.20	\$40.69
3	COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	<b>\$</b> 13.30	\$41.64	\$54.94
4	INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.37	\$16.85	\$22.22
5	OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.95	\$1.53	\$6.48
6	MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.20	\$61.34	\$65.53
7	ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.68	\$26.55	\$32.23
8	ANNUAL DIRECT COST	SUM (LINÉ 2 THRU LINE 7)	\$0.00	\$36.99	\$185.10	\$222.09
9	MONTHLY COST	LINE 8 / 12	\$0.00	\$3.08	\$15.43	\$18.51
10	OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.07	\$20.36	\$24.43
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

WORKPAPER 2.0 PAGE 1 OF 1

### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	(A)	(B)	(C)
LINE NO.	<u>ITEM</u>	SOURCE	DATA
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.0, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.0, LINE 14C	\$34.89
3	BATTERIES	WP 3.0, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.0, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.0, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.0, LINE 40C	\$120.50
7	BATTERY DISTRIBUTION FUSE BAY	WP 3.0, LINE 45C	\$10.25
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$262.90

### WORKPAPER 2.1 PAGE 1 OF 1

### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

	(A)	(B)	(C)
LINE NO.	<u>ITEM</u>	SOURCE	DATA
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.1, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.1, LINE 14C	\$34.89
3	BATTERIES	WP 3.1, LINE 21C	<b>\$</b> 46.91
4	AUTOMATIC BREAKERS	WP 3.1, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.1, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.1, LINE 40C	\$120.50
7	POWER PLANT DISTRIBUTION BAY	WP 3.1, LINE 45C	<b>\$</b> 9.20
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$261.85

WORKPAPER 3.0 PAGE 1 OF 1

### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	(8)	(C)	(D)	(E)	(F)	(G)	(H)
			MAJOR	HIGH RISE			
LINE NO.	<u>ITEM</u>	SOURCE	CITIES	MAJOR CITIES	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)	Engineering	£ 000	e 000	2.600	2,600	600
1 2	AMP Material	Engineering Engineering	5,000 \$22,800	6,000 \$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP Sum (L5D thru L5H)	\$6.28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
	Rectifiers						
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	5D
8 9	Tot. AMPS Utilization	( L6 * L7) (L6-1) / L6)	2,400 83.33%	2,400 83.33%	1,200 83.33%	1,200 83.33%	350 85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP	\$34.89	\$14.46	\$3.53	\$4.41	\$3.54	\$8.94
	Sum (L14D thru L14H)						
45	Batteries	Engineering	3	4	3	3	2
15 16	Strings AMPs per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 ° L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP Sum (L21D thru L21H)	\$46.91	\$26.60	\$6.42	\$5.41	\$4.35	\$4.13
	Automatic Breaker						
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23 24	Total Investment	Engineering	\$50,000	\$150,000 <b>\$46</b> .88	\$40,000 \$33.33	\$35,000 \$43.75	\$20,000 \$50.00
25	Unit Investment Per AMP Statewide Weighting	(L23 / L22) Service Costs	\$31.25 0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
_	Sum (L26D thru L26H)	<u> </u>					
47	Power Distribution Service Cabinet	<b>5</b>	800	2 200	800	400	400
27 28	Amps Material	Engineering Engineering	800 \$7,000	3,200 \$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
31	Statewide Unit Investment Per AMP Sum (L31D thru L31H)	\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
	Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,45B	851	608	195
35 36	Emerg. Engine Invest. Conduit/Emer Lights	Engineering Engineering	\$125,000 \$35,000	\$125,000 \$115,000	\$38,200 \$30,000	\$33,500 \$25,000	\$21,000 \$20,000
37	Total Investment	(L35 + L36)	\$160,000	\$240,000	\$68,200	\$58,500	\$41,000
38	Unit Investment Per AMP	(L37 / L34)	\$109 73	\$164.60	\$80.12	\$96.28	\$210.69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP Sum (L40D thru L40H)	\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
	Battery Distribution Fuse Bay						
41	AMP Capacity	Engineering	800	800	800	800	800
42	Material	Engineering	\$8,200 \$10.25	\$8,200 \$10.25	\$8,200 \$10.25	\$8,200 \$10.25	\$8,200 \$10.25
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41) Service Costs	\$10.25 0.5574	\$10.25 0.1359	0.1243	0.0998	0.0826
45	Statewide Unit Investment Per AMP	\$10.25	\$5.71	\$1.39	\$1.27	\$1.02	\$0.85
	Sum (L45D thru L45H)						
46	Total Unit Investment - (Less than or	£262.00	1				
46	Equal to 60 AMP's) - Sum Lines	\$262.90	J				
	(5C+14C+21C+26C+31C+40C+45C)						

WORKPAPER 3.1 PAGE 1 OF 1

#### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

		DC POWER - GREATER	THAN 60 AMPS	s			
	(B)	(C)	(D)	(E)	(F)	(G)	(H)
LINE NO.	ITEM	SOURCE	MAJOR CITIES	HIGH RISE	URBAN	SUBURBAN	RURAL
		<u> </u>					
	Microprocessor Plant (BUSS BAR)	Factoridae	5 000	E 000	2.600	2 600	600
1 2	AMP Material	Engineering Engineering	5,000 \$22,800	6,000 \$48,000	2,600 \$17,500	2,600 \$11,500	600 \$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4,42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP	\$6.28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
Ū	Sum (L5D thru L5H)	40.20	<b>V</b> 2.5-	<b>V</b> 25	66.64	••.	•1.00
	Rectifiers						
6	Quantity	Engineering	6	6	6	6	7
7 8	AMPS per unit	Engineering	400	400	200	200	50
9	Tot. AMPS Utilization	( £6 * L7) (£6-1) / £6)	2,400 83.33%	2,400 83.33%	1,200 83.33%	1,200 83.33%	350 85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	<b>\$</b> 62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25,95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP Sum (L14D thru L14H)	\$34.89	\$14.46	\$3.53	\$4.41	\$3.54	\$8.94
	Batteries						
15	Strings	Engineering	3	4	3	3	2
16	AMPs per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 ° L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP Sum (L21D thru L21H)	\$46.91	\$26.60	\$6.42	\$5.41	\$4.35	\$4.13
	Automatic Breaker						
22	AMP per Breaker	Engineering	1,600	3,200	1.200	800	400
23	Total Investment	Engineering	\$50,000	\$150,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
	Sum (L26D thru L26H)						
	Power Distribution Service Cabinet						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
31	Statewide Unit Investment Per AMP	\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
	Sum (L31D thru L31H)						
	Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,083	2.083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,458	851	608	195
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000
36	Conduit/Emer Lights	Engineering	\$35,000	\$115,000	\$30,000	\$25,000	\$20,000
37 38	Total Investment	(L35 + L36)	\$160,000	\$240,000	\$68,200	\$58,500	\$41,000
39	Unit Investment Per AMP Statewide Weighting	(L37 / L34) Service Costs	\$109.73 0.5574	\$164.60 0.1359	\$80.12 0.1243	\$96.28 0.0998	\$210.69 0.0826
40	Statewide Unit Investment Per AMP Sum (L40D thru L40H)	\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
	Power Plant Distribution Bay						
41	AMP Capacity	Engineering	2,600	2,600	1,200	1,200	300
42 43	Material	Engineering	\$20,000	\$22,000	\$15,000	\$10,000	\$5,000 \$16.67
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41) Service Costs	\$7 69 0.5574	\$8.46 0.1359	\$12.50 0.1243	\$8.33 0.0998	\$16.67 0.0826
45							
43	Statewide Unit Investment Per AMP Sum (L45D thru L45H)	\$9.20	\$4.29	\$1.15	\$1.55	\$0.83	\$1.38
	Total Unit Investment - (Greater than 60						
	AMPs) -Sum Lines						
46	(5C+14C+21C+26C+31C+40C+45C)	\$261.85					

### WORKPAPER 4.0 PAGE 1 OF 1

### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

### FACTORS

Line No.	(A) <u>Factor Item</u>	(B) <u>Source</u>	(C) FCC DATA
	ANNUAL COST FACTOR		
	- Digital Switch - Power (2212.00)		
1	DEPRECIATION	SERVICE COSTS	0.0510
2	COST OF MONEY	SERVICE COSTS	0.0571
3	INCOME TAX	SERVICE COSTS	0.0231
4	OTHER TAX	SERVICE COSTS	0.0021
5	MAINTENANCE	SERVICE COSTS	0.0841
6	ADMINISTRATION	SERVICE COSTS	0.0364
7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2538
8	- Land DEPRECIATION	SERVICE COSTS	0.0000
9	COST OF MONEY	SERVICE COSTS SERVICE COSTS	0.0000
10	INCOME TAX	SERVICE COSTS	0.1145
11	OTHER TAX	SERVICE COSTS	0.0463
12	MAINTENANCE	SERVICE COSTS	0.0317
13	ADMINISTRATION	SERVICE COSTS	0.0269 0.0364
14	TOTAL- Land ACF		
14	TOTAL- Land ACF	SUM (LINES 8 THRU LINE 13)	0.2558
	- Building		
15	DEPRECIATION	SERVICE COSTS	0.0224
16	COST OF MONEY	SERVICE COSTS	0.0852
17	INCOME TAX	SERVICE COSTS	0.0344
18	OTHER TAX	SERVICE COSTS	0.0317
19	MAINTENANCE	SERVICE COSTS	0.0269
20	ADMINISTRATION	SERVICE COSTS	0.0364
21	TOTAL- Building ACF	SUM (LINES 15 THRU LINE 20)	0.2370
	OTHER FACTORS:		
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.0000
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.2140
24	EF&I FACTOR - FRC 377C (DC POWER)	SERVICE COSTS	2.7852
25	DC POWER - OVERHEAD LOADING FACTOR	COMMISSION PRESCRIBED	1.3200

## PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

# 8-Aug-01 8-Aug-01 DC POWER - WEIGHTED SUMMARY BASED ON THE AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	<u>c</u>
	<u>ITEM</u>	SOURCE	BA - SOUTH
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	<b>\$</b> 19.59
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$14.70
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	<b>\$</b> 19.75
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$4.94
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>AVERAGE EXPECTED</u> LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$19.63

EXHIBIT PAGE 1 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

			- WEIGHTED -							1
	<u>A</u>	ë	<u>c</u>	D	Ē	Ē	Ģ	Ħ	ı	ī
	<u>ITEM</u>	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	BA-PA	BA-VA	BA-WV	BA-SOUTH
1	TOTAL UNIT INVESTMENT	COST STUDY	\$26.10	\$21.38	\$129.95	\$222.76	\$238.08	\$122.53	\$39.37	\$800.15
2	DEPRECIATION	COST STUDY	\$1.18	\$0.95	\$6.01	\$10.09	\$10.82	\$5.66	\$1.77	\$36.49
3	COST OF MONEY	COST STUDY	\$1.51	\$1.26	\$7.52	\$12.96	\$13.74	\$7.10	\$2.31	\$46.39
4	INCOME TAX	COST STUDY	\$0.80	\$0.65	\$3.70	\$6.72	\$7.32	\$3.39	\$1.20	\$23.77
5	MAINTENANCE	COST STUDY	\$1.50	\$1.36	\$6.08	\$12.22	\$12.58	\$6.28	\$2.34	\$42.37
6	ADMINISTRATION	COST STUDY	\$1.63	\$0.62	\$5.57	\$9.62	\$9.50	\$4.77	\$1.48	\$33.18
7	OTHER TAX	COST STUDY	\$0.17	\$0.18	\$2.28	\$2.76	\$2.14	\$1.00	\$0.42	\$8.95
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.78	\$5.02	\$31.16	<b>\$</b> 54.37	\$56.10	\$28.20	\$9.53	\$191.16
9	MONTHLY COST	LINE 8 / 12	\$0.57	\$0.42	\$2.60	\$4.53	\$4.68	\$2.35	\$0.79	\$15.93
10	OVERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.70	\$0.51	\$3.19	\$5.57	\$5.75	\$2.89	\$0.98	<b>\$</b> 19.59
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81

EXHIBIT PAGE 2 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

8-Aug-01
DC POWER - GREATER THAN 60 AMPS

			- WEIGHTED -							•
	<u>A</u>	₿	Ē	D	E	E	<u>G</u>	Ħ	ı	ږ
	ITEM	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	BA-PA	BA-VA	BA-WV	BA-SOUTH
1	TOTAL UNIT INVESTMENT	COST STUDY	\$26.06	\$21.54	\$131.20	\$223.74	\$240.24	\$123.66	\$40.15	\$806.60
2	DEPRECIATION	COST STUDY	\$1.17	\$0.96	\$6.07	\$10.14	\$10.92	<b>\$</b> 5.71	\$1.81	\$36.78
3	COST OF MONEY	COST STUDY	\$1.51	\$1.27	\$7.59	\$13.01	\$13.86	\$7.16	\$2.36	\$46.77
4	INCOME TAX	COST STUDY	\$0.80	\$0.65	\$3.73	\$6.75	\$7.38	\$3.43	\$1.22	\$23.96
5	MAINTENANCE	COST STUDY	\$1.50	\$1.37	\$6.14	\$12.27	\$12.70	\$6.34	\$2.39	\$42.71
6	ADMINISTRATION	COST STUDY	\$1.62	\$0.63	\$5.63	\$9.66	\$9.58	\$4.81	\$1.51	\$33.44
7	OTHER TAX	COST STUDY	\$0.17	\$0.18	\$2.30	\$2.77	\$2.16	\$1.00	\$0.43	\$9.02
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.77	\$5.06	\$31.46	\$54.61	<b>\$5</b> 6.61	\$28.46	\$9.71	\$192.69
9	MONTHLY COST	LINE 8 / 12	\$0.56	\$0.42	\$2.62	\$4.55	<b>\$</b> 4.72	\$2.37	\$0.81	\$16.06
10	OVERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.69	\$0.52	\$3.22	\$5.60	\$5.80	\$2.92	\$1.00	\$19.75
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81

EXHIBIT PAGE 3 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

	<u>A</u>	<u>B</u>	Ē	Ď	Ē	E	Ģ	Ħ	ļ
				COST OF	INCOME			OTHER	
LINE NO.	ITEM	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.0, PG 1, LINES 2 THRU 7	\$32.25	\$41.46	\$21.91	\$41.21	\$44.64	\$4.64	\$186.10
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	0.03644	0.03644	0.03644	0.03644	0.03644	0.2186
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$1.18	\$1.51	\$0.80	\$1.50	\$1.63	\$0.17	\$6.78
4	DELAWARE	WP 2.0, PG 1, LINES 2 THRU 7	\$37.20	\$48.99	\$25.20	\$52.93	\$24.25	\$7.03	\$195.60
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	<b>\$</b> 0.95	\$1.26	\$0.65	\$1.36	\$0.62	\$0.18	\$5.02
7	MARYLAND	WP 3.0, PG 1, LINES 2 THRU 7	\$36.98	\$46.29	\$22.75	\$37.45	\$34.31	\$14.03	\$191.82
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	0.16245	0.16245	0.16245	0.16245	<u>0.16245</u>	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$6.01	\$7.52	\$3.70	\$6.08	\$5.57	\$2.28	\$31.16
10	NEW JERSEY	WP 4.0, PG 1, LINES 2 THRU 7	\$34.57	\$44.38	\$23.02	\$41.86	\$32.94	\$9.46	\$186.22
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	<u>1.7518</u>
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$10.09	\$12.96	<b>\$</b> 6.72	\$12.22	\$9.62	\$2.76	\$54.37
13	PENNSYLVANIA	WP 5.0, PG 1, LINES 2 THRU 7	\$37.30	\$47.34	\$25.21	\$43.36	\$32.73	\$7.39	\$193.33
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	1.7411
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$10.82	\$13.74	\$7.32	\$12.58	\$9.50	\$2.14	\$56.10
16	VIRGINIA	WP 6.0, PG 1, LINES 2 THRU 7	\$36.39	\$45.64	\$21.83	\$40.40	\$30.67	\$6.40	\$181.34
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	<u>0.15549</u>	0.15549	0.15549	0.15549	0.15549	0.15549	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$5.66	\$7.10	\$3.39	\$6.28	\$4.77	\$1.00	\$28.20
19	WEST VIRGINIA	WP 7.0, PG 1, LINES 2 THRU 7	\$46.87	<b>\$</b> 61. <b>1</b> 9	\$31.74	\$61.87	\$39.03	\$11.15	\$251.85
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	0.03782	0.03782	0.03782	0.03782	0.03782	0.03782	<u>0.2269</u>
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.77	\$2.31	\$1.20	\$2.34	\$1.48	\$0.42	\$9.53

EXHIBIT PAGE 4 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC: DC, DE, MD, NJ, PA, VA & WV FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	Ē	E	<u>G</u>	Ħ	1
				COST OF	INCOME			OTHER	
LINE NO.	ITEM	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.1, PG 1, LINES 2 THRU 7	\$32.20	\$41.41	\$21.88	\$41.16	\$44.58	\$4.63	\$185.86
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	0.03644	0.03644	0.03644	0.03644	0.03644	0.21864
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$1.17	\$1.51	\$0.80	\$1. <del>5</del> 0	\$1.62	\$0.17	\$6.77
4	DELAWARE	WP 2.1, PG 1, LINES 2 THRU 7	\$37.47	\$49.34	\$25.39	\$53.31	\$24.43	\$7.08	\$197.02
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$0.96	\$1.27	\$0.65	\$1.37	\$0.63	\$0.18	\$5.06
7	MARYLAND	WP 3.1, PG 1, LINES 2 THRU 7	\$37.34	\$46.74	\$22.97	\$37.82	\$34.64	\$14.17	\$193.68
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	0.16245	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$6.07	\$7.59	\$3.73	\$6.14	\$5.63	\$2.30	\$31.46
10	NEW JERSEY	WP 4.1, PG 1, LINES 2 THRU 7	\$34.72	\$44.57	\$23.12	\$42.04	\$33.09	\$9.50	\$187.04
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	1.7518
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$10.14	\$13.01	\$6.75	\$12.27	\$9.66	\$2.77	\$54.61
13	PENNSYLVANIA	WP 5.1, PG 1, LINES 2 THRU 7	\$37.64	\$47.77	\$25.44	\$43.76	\$33.03	\$7.45	\$195.10
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	1.7411
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$10.92	\$13.86	\$7.38	\$12.70	\$9.58	\$2.16	\$56.61
16	VIRGINIA	WP 6.1, PG 1, LINES 2 THRU 7	\$36.73	\$46.06	\$22.03	\$40.78	\$30.96	\$6.46	\$183.03
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	<u>0.15549</u>	0.15549	<u>0.15549</u>	0.15549	0.15549	0.15549	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$5.71	\$7.16	\$3.43	\$6.34	\$4.81	\$1.00	\$28.46
19	WEST VIRGINIA	WP 7.1, PG 1, LINES 2 THRU 7	\$47.80	\$62.41	\$32.37	\$63.10	\$39.81	\$11.37	\$256.86
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	0.03782	0.03782	0.03782	0.03782	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.81	\$2.36	\$1.22	\$2.39	\$1.51	\$0.43	\$9.71

WORKPAPER 1.0 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	Ω	<u>E</u>	E
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.0, PG 3, LINE 10	-	-	\$221.40	\$221.40
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	•	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	•	\$616.64	\$616.64
4	UTILIZATION FACTOR	ENGINEERING	-	•	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$616.64	\$616.64
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	•	•	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	•	0.1523	-	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.65		-	<b>\$</b> 5.65
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.90	-	\$93.90
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.65	\$93.90	\$616.64	\$716.19
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.47	\$26.10

WORKPAPER 1.0 PAGE 1 OF 3

### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	A	₿	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	! <u>TEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.0, PG 2 LINE 10	\$5.65	\$93.90	\$616.64	\$716.19
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$30.70	\$32.25
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.08	\$32.75	\$41.46
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.31	\$21.91
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.30	\$41.21
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.85	\$38.43	\$44.64
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	\$2.60	\$1.88	<u>\$4.64</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23.19	\$161.37	\$186.10
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.85	\$5.88	\$6.78

WORKPAPER 1.0 PAGE 3 OF 3

### PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	DC POWER COST DE	VELOPMENT - LESS THAN	OR EQUA	L TO 60 AMPS	<u>•</u>
	<u> </u>	₿	<u>c</u>	D	E
LINE NO.	!TEM	SOURCE	METRO	URBAN	SUBURBAN
LINE NO.	<u> </u>	goulde.	METIC	SILBAIR	CODORDAN
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3 4	Unit Investment Per AMP	(L2 / L1)	\$5.43 0.5982	\$9.18 0.3750	\$9.18
	Statewide Weighting	WP 8.0, Col C, Lns 27-30		0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	Rectifiers				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10/L9)	\$66,602	\$50,455	<b>\$50</b> ,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	<b>\$1</b> 5.77	\$1.13
	Batteries				
15	Strings	Engineering	3	3	3
16	AMPs per String	Engineering	688	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	• 45 mars B				
	Automatic Breaker	<b>-</b>	4.000	4.000	000
22 23	AMP per Breaker Total Investment	Engineering Engineering	1,600 \$50,000	1,200 \$40,000	800 \$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
_			•		
	Power Distribution Service Cabinet				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677
29 30	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19
	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38 39	Unit Investment Per AMP Statewide Weighting	(L37 / L34) WP 8.0, Col C, Lns 27-30	\$96.73 0.5982	\$89.48 0.3750	\$99.27 0.0268
40		\$94.08	\$57.87		
40	Statewide Unit Investment Per AMP	\$94.00	\$37.07	\$33.55	\$2.66
	Battery Distribution Fuse Bay				
41	AMP Capacity	Engineering	800	800	800
42	Material	Engineering	\$5,355	<b>\$</b> 5,3 <b>5</b> 5	\$5,355
43	Unit Investment Per AMP	(L42/L41)	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.69	\$4.00	\$2.51	\$0.18
	Total Unit Investment - (Less than or				
46	Equal to 60 AMP's) - Sum Lines	\$221.40			
	(5C+14C+21C+26C+31C+40C+45C)				

WORKPAPER 1.1 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	A	<u>B</u>	<u>c</u>	Ď	Ē	E
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.1, PG 3, LINE 10	-	-	\$221.12	<b>\$221.12</b>
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$615.86	\$615.86
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$615.86	\$615.86
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	-	-	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.1523	-	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.64		-	\$5.64
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.78	-	\$93.78
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.64	\$93.78	\$615.86	\$715.28
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.44	\$26.06

WORKPAPER 1.1 PAGE 1 OF 3

### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	₫	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.1, PG 2 LINE 10	\$5.64	\$93.78	\$615.86	\$715.28
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$30.66	\$32.20
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.06	\$32.71	\$41.41
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.29	\$21.88
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.25	\$41.16
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.84	\$38.38	\$44.58
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	\$2.60	\$1.88	<u>\$4.63</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23,16	\$161.17	\$185.86
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.84	\$5.87	<b>\$</b> 6.77

WORKPAPER 1.1 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

### DC POWER COST DEVELOPMENT - GREATER THAN 60 AMPS

	<u> </u>	<u>8</u>	<u>c</u>	D	Ē
LINE NO.	<u>!TEM</u>	SOURCE	METRO	URBAN	SUBURBAN
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	5,000	2,600	2.600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2 / L1)	<b>\$</b> 5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	Rectifiers				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	<b>\$</b> 16.60	\$15.77	\$1.13
	<u>Batteries</u>				
15	Strings	Engineering	3	3	3
16	AMPs per String	Engineering	688	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952 \$39,22	\$34,965 \$37.60	\$34,965 \$37.60
19 20	Unit Investment Per AMP Statewide Weighting	(L18 / L17) WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	Audamatia Danalusa		•		
••	Automatic Breaker	<b>F</b> i	4 500	4 000	000
22	AMP per Breaker	Engineering Engineering	1,600 \$50,000	1,200 \$40,000	800 \$35,000
23 24	Total Investment Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
26	Statewide Offit Investment Fel AMF	\$32.37	\$10.03	<b>3</b> 12.30	<b>41.17</b>
a <del>-</del>	Power Distribution Service Cabinet	Fa-ii	4.000	900	400
27	Amps Material	Engineering	1,600 <b>\$</b> 13,976	800 \$7,788	400 \$5,677
28 29	Unit Investment Per AMP	Engineering (L28 / L27)	\$8.74	\$9.74	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/turbine (auto start)				
32	Emergency engine/turbine (auto start)  AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	\$57.87	\$33.55	\$2.66
	Power Plant Distribution Bay				
41	AMP Capacity	Engineering	2,600	1,200	1,200
42	Material	Engineering	\$12,747	\$10,388	\$10,388
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.41	\$2.93	\$3.25	\$0.23
	Total Unit Investment - (Greater than 60				
41	AMPs) -Sum Lines	\$221.12			
71		WZE 1.12			
	(5C+14C+21C+26C+31C+40C + 45C)				

WORKPAPER 2.0 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	A	₿	<u>c</u>	Ō	Ē	E
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$247.50	\$247.50
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	•	\$689.35	\$689.35
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$689.35	\$689.35
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.47		•	\$6.47
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$137.48	-	\$137.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.47	\$137.48	\$689.35	\$833.30
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.53	\$17.69	\$21.38

WORKPAPER 2.0 PAGE 1 OF 3

### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	Ā	<u>B</u>	Ē	ō	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.47	\$137.48	\$689.35	\$833.30
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.94	\$34.26	\$37.20
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.73	\$11.47	\$36.79	\$48.99
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	\$5.90	\$18.93	\$25.20
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.67	\$49.09	\$52.93
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.00	\$20.06	\$24.25
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.12</u>	<u>\$2.64</u>	<b>\$4.26</b>	<u>\$7.03</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.59	\$30.62	\$163.39	\$195.60
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.19	\$5.02

#### WORKPAPER 2.0 PAGE 3 OF 3

### PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	A	В	<u>c</u>	₽	Ē	E
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2 3	Material Unit Investment Per AMP	Engineering	\$27,154 \$5.43	\$23,879 \$9.18	\$23,879 \$9,18	\$18,349 \$30.58
4	Statewide Weighting	(L2 / L1) WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69
	Destificati		-			
	Rectifiers Quantity	Fasiansian		•	_	-
6 7	AMPS per unit	Engineering Engineering	6 400	6 200	6 200	7 50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83,33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40
45	<u>Batteries</u>	<b>.</b>	•	•	•	
15 16	Strings	Engineering	3 688	3 310	3	2
17	AMPs per String Tot. AMPS	Engineering (L15 * L16)	2.064	930	310 930	310 620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18/L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4.54
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10.03	\$12.07	\$6.04
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 ° L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36 37	Conduit/Emer Lights Total Investment	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
38	Unit Investment Per AMP	(L35 + L36) (L37 / L34)	\$176,394 \$96.73	\$108,736 \$89.48	\$77,203 \$99,27	\$53,684 \$176,71
39	Statewide Weighting	WP 8.0. Col D. Lns 27-30	0.3027	0,3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP	\$104.91	\$29.28	\$26 92	\$27.39	\$21.33
	Rolling Distribution Fund Dec					
44	Battery Distribution Fuse Bay	Factor	900	000	000	000
41 42	AMP Capacity	Engineering	800	800	800	800
42	Material Unit Investment Per AMP	Engineering (L42 / L41)	\$5,355 \$6.69	\$5,355 \$6.69	\$5,355 \$6.69	\$5,355 \$6.69
44	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
45	Statewide Unit Investment Per AMP	\$6.69	\$2.03	\$2.01	\$1.85	\$0.81
	Translation of the state of the					
46	Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines	\$247.50				
70	•	¥247,300				
	(5C+14C+21C+26C+31C+40C+45C)					

WORKPAPER 2.1 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	A	B	<u>c</u>	D	E	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	•	\$249.29	\$249.29
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.34	\$694.34
4	UTILIZATION FACTOR	ENGINEERING		-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	•	•	\$694.34	\$694.34
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.52		-	\$6.52
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$138.48	-	\$138.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.52	\$138.48	\$694.34	\$839.33
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.55	\$17.82	\$21.54

WORKPAPER 2.1 PAGE 1 OF 3

#### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	Ō	Ē	Ē
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.52	\$138.48	\$694.34	\$839.33
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.96	<b>\$34</b> .51	<b>\$</b> 37.47
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.74	\$11.55	\$37.06	\$49.34
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	\$5.94	\$19.07	\$25.39
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.70	\$49.44	\$53.31
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.03	\$20.21	\$24.43
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.13	\$2.66	<b>\$</b> 4.29	<u>\$7.08</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.60	\$30.84	\$164.57	\$197.02
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.22	\$5.06

WORKPAPER 2.1 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

### DC POWER - GREATER THAN 60 AMPS

	<del></del>					
	Ą	B	ç	ō	Ē	E
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.1B	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69
	Rectifiers					
•	Quantity	Engineering	6	6	6	7
6		Engineering	400	200	200	50
7	AMPS per unit Tot, AMPS	Engineering	2.400	1,200	1,200	350
8 9	Utilization	( L6 * L7) (L6-1) / <b>L</b> 6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50.455	\$50,455	\$18,550
12	Unit Investment Per AMP		\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	(L11 / L8) WP 8.0, Coi D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40
	Signature Similar Source Conference of Confe	400.05	•0.10	V.2.20	•	00.40
45	Batteries	F	•	•	2	•
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60 0.2750	\$37.60
20	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4.54
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	<b>\$43</b> .75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10.03	\$12.07	\$6.04
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	<b>\$</b> 5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05
		<u></u>				
20	Emergency engine/turbine (auto start)	Engineering	2 605	1 726	1 111	434
32	AMP Capacity Utilization	Engineering	2,605 70%	1,736 70%	1,111 70%	70%
33 34	Utilized AMPS	Engineering (L32 * L33)	1,824	1,215	70% 778	304
35	Emerg. Engine Invest.	, ,	\$130,765	\$78,249	\$53,871	\$41.874
36	Conduit/Emer Lights	Engineering Engineering	\$45,629	\$30,487	\$23,332	\$11.810
37	Total Investment	Engineering (L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP	\$104.91	\$29.28	\$26.92	\$27.39	\$21.33
		·				
	Power Plant Distribution Bay					
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
45	Statewide Unit Investment Per AMP	\$8.49	\$1.48	\$2.60	\$2.39	\$2.01
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$249.29				

(5C+14C+21C+26C+31C+40C+45C)

WORKPAPER 3.0 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	A	₿	<u>c</u>	₫	<u>E</u>	<u>E</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 3.1, PG 3, LINE 10	-	-	\$248.71	\$248.71
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24E	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	•	\$692.71	\$692.71
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	•	\$692.71	\$692.71
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22E	0.0078	•	-	0.0078
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23E	-	0.1470	-	0.1470
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.40		•	\$5.40
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$101.82	•	\$101.82
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.40	\$101.82	\$692.71	\$799.93
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26E	\$0.88	\$16.54	\$112.53	\$129.95

WORKPAPER 3.0 PAGE 1 OF 3

### PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	A	<u>B</u>	<u>c</u>	Ď	Ē	E
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 3.0, PG 2 LINE 10	\$5.40	\$101.82	\$692.71	\$799.93
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.24	\$34.74	\$36.98
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.61	\$8.49	\$37.19	\$46.29
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.17	\$18.28	\$22.75
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.14	\$2.62	\$34.70	\$37.45
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.23	\$4.37	\$29.71	\$34,31
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	<u>\$1.78</u>	<u>\$12.16</u>	<b>\$14.03</b>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.37	\$23.67	\$166.78	\$191.82
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26E	\$0.22	\$3.85	\$27.09	<b>\$</b> 31.16

WORKPAPER 3.0 PAGE 3 OF 3

### PHYSICAL COLLOCATION Verizon - Maryland FCC NO. 1

	A	В	ç	Ď	Ę	E
LINE NO.	<u>ITEM</u>	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	<b>\$</b> 9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	<u>0.1377</u>
5	Statewide Unit Investment Per AMP	\$11.47	\$0.96	\$4.74	\$1.56	\$4.21
	<u>Rectifiers</u>					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	<b>\$</b> 42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05 0.5163	\$42.05	\$53.00 0.1377
13	Statewide Weighting	WP 8.0. Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
14	Statewide Unit Investment Per AMP	\$41.03	\$4.89	\$21.70	\$7.14	\$7.30
	<u>Batteries</u>					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(£18/L17)	\$39.22	\$37.60 0.5163	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
21	Statewide Unit Investment Per AMP	\$37.88	\$6.91	\$19.41	\$6.38	<b>\$</b> 5.18
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
26	Statewide Unit Investment Per AMP	\$37.03	<b>\$</b> 5. <b>5</b> 1	\$17.21	\$7.43	\$6.89
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	<b>\$</b> 5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Cof E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
31	Statewide Unit Investment Per AMP	\$10.17	\$1.54	\$5.03	\$2.41	\$1.19
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2.605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	<b>\$</b> 53, <del>6</del> 84
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
40	Statewide Unit Investment Per AMP	\$104.43	\$17.05	<b>\$46</b> .19	\$16.86	\$24.33
	Battery Distribution Fuse Bay					
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
45	Statewide Unit Investment Per AMP	\$6.69	\$1.18	\$3.46	\$1.14	\$0.92
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$248.71				
	(5C+14C+21C+26C+31C+40C+45C)					

WORKPAPER 3.1 PAGE 2 OF 3

### PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	<u>A</u>	<u>B</u>	<u>Ç</u>	D	Ē	E
	TEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 3.0, PG 3, LINE 10	-	-	<b>\$25</b> 1.11	\$251.11
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24E	-	•	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	•	\$699.40	\$699.40
4	UTILIZATION FACTOR	ENGINEERING	-	•	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$699.40	\$699.40
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22E	0.0078	-	•	0.0078
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23E	-	0.1470	<u>-</u>	0.1470
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.45		-	\$5.45
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$102.80	-	\$102.80
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.45	\$102.80	\$699.40	\$807.65
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26E	\$0.89	\$16.70	\$113.62	\$131.20

WORKPAPER 3.1 PAGE 1 OF 3

### PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	A	₿	<u>c</u>	Ū	Ē	E
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 3.0, PG 2 LINE 10	\$5.45	\$102.80	\$699.40	\$807.65
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.26	\$35.08	\$37.34
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.62	\$8.57	\$37.55	\$46.74
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	<b>\$</b> 4.21	\$18.45	\$22.97
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.14	\$2.64	\$35.03	\$37.82
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.23	\$4.41	\$30.00	\$34.64
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.10	<u>\$1.80</u>	<b>\$12.27</b>	<u>\$14.17</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.39	\$23.90	\$168.39	\$193.68
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26E	\$0.23	\$3.88	\$27.35	\$31.46

WORKPAPER 3.1 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - Maryland FCC NO. 1

### DC POWER - GREATER THAN 60 AMPS

	<u>-</u>	B	<u>c</u>	D	Ē	£
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	<u>0.1698</u>	0.1377
5	Statewide Unit Investment Per AMP	\$11.47	\$0.96	\$4.74	\$1.56	\$4.21
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83,33%	83.33%	83.33%	85.71%
10 11	Material Total Investment	Engineering	\$55,502 \$66,602	\$42,046 \$50,455	\$42,046 \$50,455	\$15,900 \$18,550
12	Unit Investment Per AMP	(L10 / L9) (L11 / L8)	\$66,602 \$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
14	Statewide Unit Investment Per AMP	\$41.03	\$4.89	\$21.70	\$7.14	\$7.30
	_		•	*	*****	• • • • • • • • • • • • • • • • • • • •
15	<u>Batteries</u> Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
21	Statewide Unit Investment Per AMP	\$37.88	\$6.91	\$19.41	\$6.38	\$5.18
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
26	Statewide Unit Investment Per AMP	\$37.03	\$5.51	\$17.21	\$7.43	\$6.89
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
31	Statewide Unit Investment Per AMP	\$10.17	\$1.54	\$5.03	\$2.41	\$1.19
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 ° L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	<b>\$4</b> 1,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
40	Statewide Unit Investment Per AMP	\$104.43	\$17.05	\$46.19	\$16.86	\$24.33
	Power Plant Distribution Bay					
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
45	Statewide Unit Investment Per AMP	\$9.09	\$0.86	\$4.47	\$1.47	\$2.29

Total Unit Investment - (Greater than 60

AMPs) -Sum Lines

\$251.11

(5C+14C+21C+26C+31C+40C + 45C)

46